

## **AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently Amended) A transparent, luminescent plastic glass which ~~contains~~ **comprises** luminescent nanoparticles.
2. (Currently Amended) The plastic glass as claimed in claim 1, ~~characterized in that~~ **wherein** the nanoparticles are selected from luminescent materials (luminescent pigments) and/or luminescent materials doped with transition metals and/or lanthanides.
3. (Currently Amended) The plastic glass as claimed in claim 1, ~~wherein or 2, characterized in that~~ the nanoparticles in the glasses are ~~preferably~~ present in an amount of from 0.1 to 20% by weight, based on the ~~amount of polymer~~ **weight of the glass**.
4. (Currently Amended) The plastic glass as claimed in ~~either of claims 2 and 3, characterized in that~~ **claim 2, wherein** the luminescent material is selected from **the group consisting of** Y<sub>2</sub>O<sub>3</sub>, YV0<sub>4</sub>, Zn<sub>2</sub>SiO<sub>4</sub>, CaWO<sub>4</sub>, MgSiO<sub>3</sub>, BaF<sub>2</sub>, SrAl<sub>2</sub>O<sub>4</sub>, ZnO, ZnS, Gd<sub>2</sub>O<sub>3</sub>S, La<sub>2</sub>O<sub>2</sub>S, BaFC1, LaOBr, Ca<sub>10</sub>(P0<sub>4</sub>)<sub>6</sub>(F, Cl)<sub>2</sub>, BaMg<sub>2</sub>Al<sub>6</sub>O<sub>27</sub>, CeMgAl<sub>11</sub>O<sub>19</sub>, ZnSe or CdS and ~~any desired~~ mixtures of the above.
5. (Currently Amended) The plastic glass as claimed in claim 4, ~~characterized in that~~ **wherein** the luminescent material is selected from **the group consisting of** ZnS and ZnO.
6. (Currently Amended) The plastic glass as claimed in claim 4, ~~wherein or 5, characterized in that~~ the luminescent material is doped with Al, transition metals, ~~such as Cu, Ag or Mn,~~ or rare earth metals, ~~such as Eu or Yb.~~

7. (Currently Amended) The plastic glass as claimed in ~~any of claims~~ **claim 1,** **wherein** ~~to 6, characterized in that~~ the plastic is a polymer or polymer blend selected from **the group consisting of** polyacrylates and derivatives thereof, polymethacrylates, polycarbonates, polystyrenes, epoxides, polyethylene terephthalates, ethylene-norbornene copolymers and any desired copolymers of the corresponding monomers.
8. (Currently Amended) A method for producing a transparent, luminescent plastic glass, ~~characterized in that~~ **comprising mixing** one or more luminescent materials ~~are mixed~~ with a polymer precursor or a solution of the polymer precursor in a first stage of the method **to obtain a mixture** and the mixture obtained is polymerized ~~in a manner known per se~~ in a second stage of the method.
9. (Currently Amended) The method as claimed in claim 8, ~~characterized in that~~ **wherein** the luminescent materials are obtained by a precipitation reaction from an alcoholic solution.
10. (Currently Amended) The method as claimed in claim 8, **wherein** ~~or 9,~~ ~~characterized in that~~ the luminescent materials are dispersed in the polymer precursor or a portion thereof or a solution of the polymer precursor or a portion thereof.
11. (Currently Amended) The method as claimed in ~~any of claims~~ **claim 8, wherein** ~~to 10, characterized in that~~ the polymer precursor is selected from **the group consisting of** monomers or polymerizable oligopolymers which are liquid at processing temperature or are soluble in a solvent.
12. (Currently Amended) The method as claimed in ~~any of claims~~ **claim 8, wherein** ~~to 11, characterized in that~~ the luminescent materials are present in the mixture with the polymer in a particle size of less than 100 nm.

13. (Currently Amended) The method as claimed in ~~any of claims~~ **claim 8, wherein** ~~to 12, characterized in that~~ the plastic glass has the shape of a film or an article.
14. (Currently Amended) **An illuminating element or luminescent comprising the plastic glass** ~~The use of the transparent, luminescent plastic glasses as claimed in any of claims~~ **claim** ~~1 to 7 for producing illuminating elements, luminescent displays, including inscriptions on objects, such as glasses, for marking plastics, etc.~~
15. (Currently Amended) **A coating comprising the plastic glass** ~~The use of the transparent, luminescent plastic glasses as claimed in any of claims~~ **claim** ~~1 to 7 for producing coatings on inorganic or organic glasses.~~